QG_505NL_e.fm Page 1 Thursday, July 10, 2003 5:00 PM

Panasonic

Digital Cordless Phone

Model No. **KX-TCD505NL**

Quick Guide

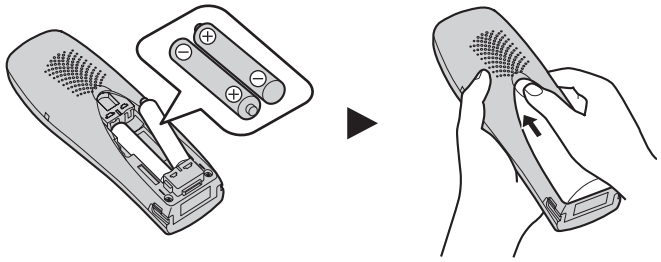
The guide is provided to allow a quick set-up of the basic features and operations of this phone. Please read the Operating Instructions for further details.

Before Initial Use

Battery Installation

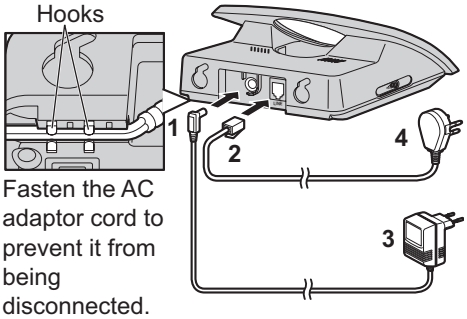
Please ensure the batteries are inserted as shown. ⊖ part should be inserted first. Close the cover as indicated by the arrow.

- When you replace the batteries, ⊕ part should be removed first.



Connection

Plug in the AC adaptor and the telephone line cord in order **1**, **2**, **3**, **4**.

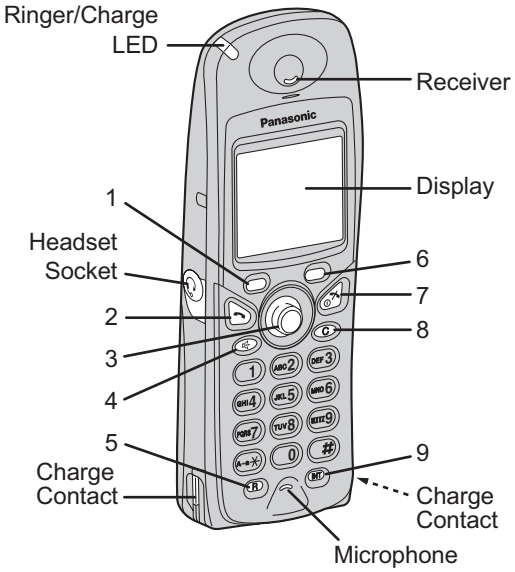


Fasten the AC adaptor cord to prevent it from being disconnected.

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- Never install telephone wiring during a lightning storm.
- USE ONLY WITH Panasonic AC ADAPTOR PQLV19CE.

Location of Controls

Handset



1 - **LEFT SOFT KEY**

2 - **TALK** Button

3 - **JOYSTICK**

4 - **SPEAKERPHONE** Button

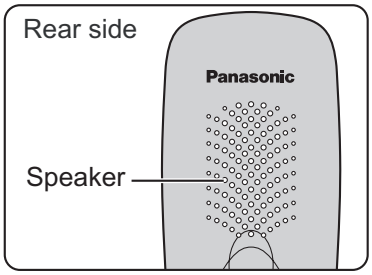
5 - **RECALL** Button

6 - **RIGHT SOFT KEY**

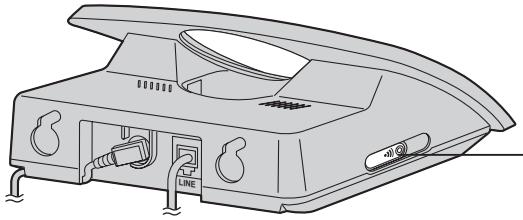
7 - **POWER/TALK OFF** Button

8 - **CLEAR** Button

9 - **INTERCOM** Button



Base Unit



PAGE Button

Operations

Function	Action
Power On/Off	Press and hold .
Making a Call	Press and dial the number.
Answering a Call	Press .
Terminating a Call	Press .
Key Lock On/Off	Press and hold . To cancel, press and hold .
Redialling the last number dialled	Press , .
Dialling from the Redial List	Press , to select a number, press .
Storing caller information in the Phonebook	Press , , enter name, press , enter phone number, press , select the desired category, press twice.
Dialling from the Phonebook	Press , to select a number, press .
Dialling from the Caller ID List	Press (or move), to select , press , to select a number, press .
Adjust Receiver Volume	Move during a call.
Speakerphone	Press .
Muting Your Conversation	Press during a call. To cancel, press once more.

Handset Settings Menu Chart

Press MENU (or move ▲▼), ▲▼ to search Setting Handset.

1st Menu	2nd Menu	3rd Menu
Setting Handset	Set Date/Time	
	Memo Alarm	
	Ringer Option	Ringer Volume
		EXT Ringer Type
		INT Ringer Type
		Paging Tone
		Private Ring
	Tone Option	Key Tone
	Display Option	Standby Display
		Talk Display
		Select Language
		Private Colour
		Category Name
To select each menu, press OK.	Call Option	Call Bar
		Direct Call No.
		Direct On/Off
	Registration	Register H/set
		Cancel Base
	Select Base	Auto
		Base 1 ⋮ Base 4
	Other Option	Change H/S PIN
		Change H/S Name
		Auto Talk
		LetterWise
		Battery Type
		Reset Handset

Base Unit Settings Menu Chart

Press (or move), to search .

1st Menu	2nd Menu	3rd Menu
Setting Base To select each menu, press OK, then enter 4-digit base unit PIN. (Factory Preset 0000)	Ringer Option	Ringer Volume
	Call Option	Recall
		Pause Time
		Emergency Call
		Set ARS
		Call Restricted
	Cancel Handset	
	Other Option	Change Base PIN
		Reset Base

SMS Feature (Text Messaging)

You can send and receive text messages between other fixed and mobile phones that also support a compatible SMS feature and network.

The SMS feature is only available after subscribing to Caller ID.

See **SMS Feature** chapter in the **Operating Instructions** for further details.

Function	Action
Writing and Sending a New Message	Press (MENU) (or move ◄►). ► to select "✉", then press OK. ▲▼ to select "Create", then press OK. Enter message (see notes in **Operating Instructions**). Press OK. Enter phone number, then press OK. ▲▼ to select "Yes" or "No", then press OK. Press OK to select "Send".
Receiving a Text Message	When a new message has been received, "✉" is displayed and a tone sounds.
Displaying/Reading the Incoming Message List	Press (MENU) (or move ◄►). ► to select "✉", then press OK. ▲▼ to select "Receive List", then press OK. ▲▼ to select desired Incoming Message, then press OK. ▲▼ to scroll the message to read.

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Panasonic

Digital Cordless Phone

Operating Instructions

Model No. **KX-TCD505NL**

SMS

Caller ID and SMS Compatible

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Preparation

Cordless Telephone

Useful Information

Please read these Operating Instructions before using the unit and save for future reference.

Charge the batteries for about 7 hours before initial use.

Before Initial Use

Features

SMS (Short Message Service) compatibility

Now the convenience of sending and receiving text messages is available from a home telephone.

32-Polyphonic Ring Tones

A variety of high-quality sounds can be reproduced for your ring tones. You can choose from 9 preset melodies and 6 ring tones.

Hands-Free Speakerphone

You can talk without holding the handset.
Convenient for talking while doing something else.

Headset Jack

Plug in the optional headset and the hands-free facility provides total ease and freedom of use.

Illuminated Keypad

Lights up when there is an incoming call or you touch any key for easier operation even in the dark.

200-Station Phonebook

Stores 200 station names and numbers with the built-in telephone directory to be recalled easily.

Multiple Handsets

Up to 6 handsets can be registered with a single base unit for added convenience. (Optional handset/charger is available separately.)

LCD Backlight

Lights up when there is an incoming call or you touch any key for easier operation even in the dark.

Before Initial Use

Thank you for purchasing your new Panasonic digital cordless telephone.

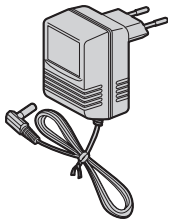
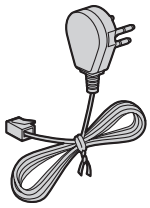
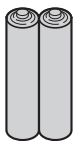
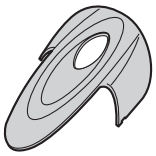
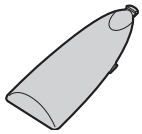
Dear purchaser,
You have acquired a KX-TCD505NL, which is a product made in accordance with the Digital Enhanced Cordless Telecommunications (DECT). DECT technology is characterized by high-security protection against interceptions as well as high-quality digital transmission. This telephone was designed for a wide range of applications. For example, this telephone can be used within a network of base units and handsets, constituting a telephone system which:

- operates up to 6 handsets at one base unit.
- allows an intercom between 2 handsets.
- allows the operation of a handset at up to 4 base units, expanding the communication radio area.

Caller ID and SMS Services, where available, are telephone company service. After subscribing to Caller ID, this phone will display the caller's phone number.

Before Initial Use

Accessories (specific to product type)

☐ AC Adaptor PQLV19CE  one	☐ Telephone Line Cord  one	☐ Rechargeable Batteries (AAA size) HHR-4EPT/BA2 (P03P)  two
☐ Belt Clip  one	☐ Battery Cover  one	

Additional accessories are available for purchase. Contact your Panasonic Service Centre for further details. 070 - 3314500

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Only use the power supply included with the product.
Do not connect the AC adaptor to any AC outlet other than the standard AC220 - 240 V.
The apparatus is approved for use with PQLV19CE power supply.
This apparatus is unable to make calls under the following conditions:

- The portable handset batteries need recharging, or have failed.
- During a mains power failure.
- When the Key Lock is set to ON.
- When the unit is in Direct Call mode (only the Direct Call Number can be made).

Do not open the base unit or handset (other than to change the batteries).
This apparatus should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
Care should be taken that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.

Environment

Do not use this unit near water.
This unit should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.
The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is located/installed near the unit and is accessible.

WARNING:
TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

Battery Caution

1. Use only the specified batteries.
2. **Only use rechargeable batteries.**
3. Do not mix old and new batteries.
4. Do not dispose of batteries in a fire, as they may explode.
   Check local waste management codes for special disposal instructions.
5. Do not open or mutilate the batteries. Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin.
   The electrolyte may be toxic if swallowed.
6. Exercise care in handling the batteries in order not to short circuit the batteries with conductive materials such as rings, bracelets and keys.
   The batteries and/or conductor may overheat and cause burns.
7. Charge the batteries in accordance with the information provided in this operating guide.
8. Batteries are supplied with this product. When they are empty, you should not throw them away. Instead, hand them in as small chemical waste.

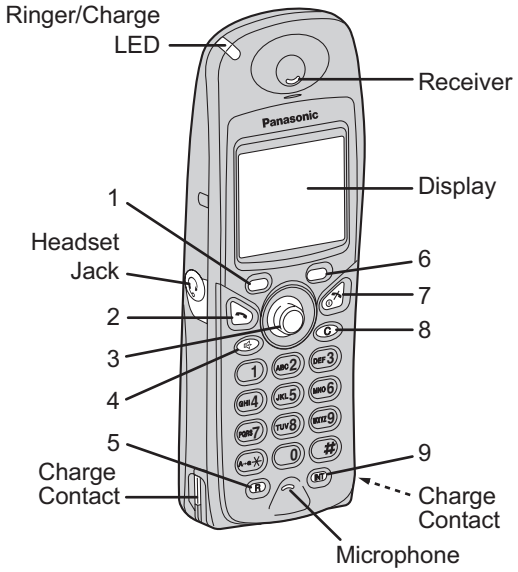
Location

- For maximum distance and noise-free operation, place your base unit:

- Away from electrical appliances such as TVs, radios, personal computers or other phones.
- In a convenient, high, and central location.

Location of Controls

Handset



1 - **LEFT SOFT KEY**

2 - **TALK** Button

3 - **JOYSTICK**

4 - **SPEAKERPHONE** Button

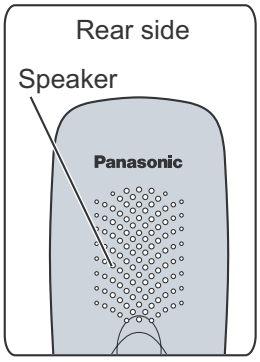
5 - **RECALL** Button

6 - **RIGHT SOFT KEY**

7 - **POWER/TALK OFF** Button

8 - **CLEAR** Button

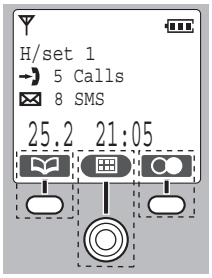
9 - **INTERCOM** Button



How to Use the Handset Soft Keys

3 soft keys are used to select functions displayed directly above the keys.
Functions displayed above the keys will change depending on the state of use.
For example, on the standby mode display, "", "" and "" are displayed above the soft keys.

Example: Standby Mode Display



To operate "" (**Phonebook**), press **LEFT SOFT KEY**.

To operate "" (**Menu**), press **JOYSTICK** directly as the middle soft key**.**

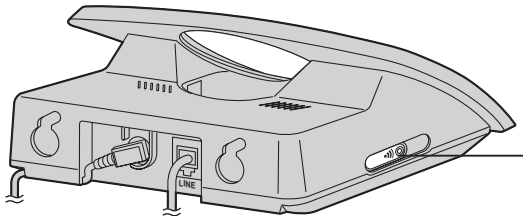
To operate "" (**Redial**), press **RIGHT SOFT KEY**.

When "" is displayed above a soft key, the soft key will not work.

- To select only "" (**Menu**), you can also select it moving the **JOYSTICK** up, down, left or right.

Location of Controls

Base Unit

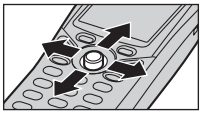
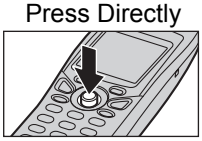
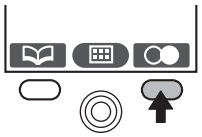
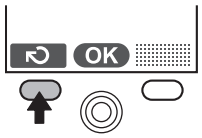


PAGE Button

Meanings of Icons above SOFT KEYS

Icon	Function	Icon	Function
	Go Back		LetterWise®
	Menu	ABC	Alphabet
	Sub-Menu	0-9	Numeric
OK	OK	AÄÅ	Extended 1
	Redial	SŚŠ	Extended 2
	Phonebook	АВГ	Greek
	New Phonebook	А Б В	Russian
	Search		Select
	Key Lock	P	Pause
12/24	12/24 Hour Clock		Mute
	No Function		Delete

Meanings of Symbols and Operations of Keys

Symbol	Meaning	
	Move the **JOYSTICK** up, down, left or right. e.g., Search the main menu. 	
e.g., OK	e.g., Display of menu items	Press **JOYSTICK** directly in the centre. In this example, the desired item is selected. Press Directly 
e.g., Redial	e.g., Standby Mode Display 	Press **RIGHT SOFT KEY**. In this example, the telephone number last dialled is displayed.
e.g., Go Back	e.g., Display of menu items 	Press **LEFT SOFT KEY**. In this example, the display returns to the previous menu. (C) has the same function.
	Press **POWER/TALK OFF** Button. **Press this button for one or two times, then the display returns to the standby mode any time.**	
	To go to the next step.	
“ ”	The words in “ ” indicate the words in the display.	
	Ringing Phone	

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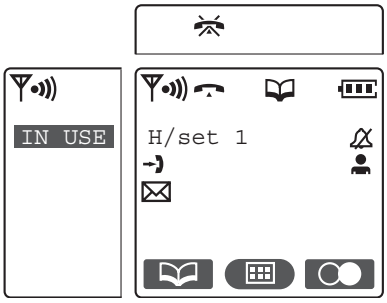
Display Icons



	Within range of a base unit
	Out of range/No registration/ No power on base unit
	Paging/Intercom/ While connecting with base unit
	Making or answering calls
	Call Bar ON
	Phonebook Mode
	Battery strength
	Direct Call ON
	Ringer Volume OFF
`H/set 1`	Handset Name (e.g., Handset 1)
	New call (Caller ID only)
	SMS mail (text messages)
IN USE	The line is being used by another handset (for additional handset users).

Main Menu Display

To go to the **Main Menu**, press **JOYSTICK** directly in the centre (or move) while in the standby mode display. The selected menu icon is turned over, and its title is displayed.

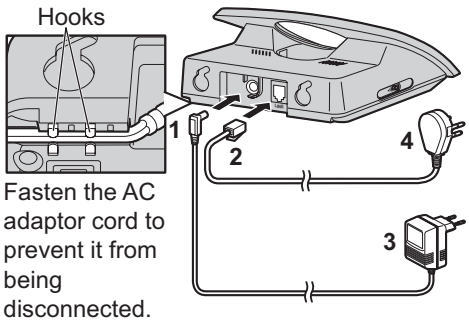
Example: "`Caller ID`" is selected.

	Caller ID
	SMS
	Handset Ringer Option
	Setting Handset
	Setting Base Unit
	Walkie-Talkie

Setting up

Connection

Plug in the AC adaptor and the telephone line cord in order **1**, **2**, **3**, **4**.



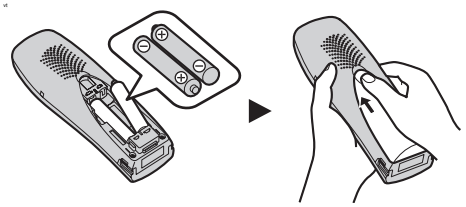
Fasten the AC adaptor cord to prevent it from being disconnected.

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- Never install telephone wiring during a lightning storm.
- USE ONLY WITH Panasonic AC ADAPTOR PQLV19CE.

Battery Installation

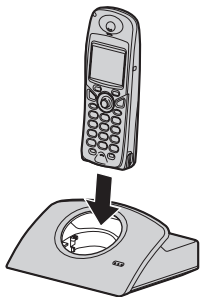
Please ensure the batteries are inserted as shown. ⊖ part should be inserted first. Close the cover as indicated by the arrow.

- When you replace the batteries, ⊕ part should be removed first.



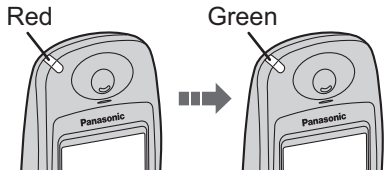
Battery Charge

At the time of shipment, the batteries are not charged. To charge, place the handset on the base unit. **Please charge the batteries for about 7 hours before initial use.**



During charging, the charge LED will light as shown below.

During charging **Fully charged**



Display icon	Battery strength
	High
	Medium
	Low
	Needs to be charged

The handset which power is off will be turned on automatically when it is placed on the base unit.

The handset will not operate while it is on the base unit.

If you do not recharge the handset battery for more than 15 minutes, the display will flash when the handset is lifted off the base unit.

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Battery Information

After your Panasonic battery is fully charged:

Ni-MH Batteries (typical 700 mAh)

Operation	Operating Time
While in use (TALK)	10 hrs approx.
While not in use (Standby)	120 hrs approx.

Ni-Cd Batteries (typical 250 mAh)

Operation	Operating Time
While in use (TALK)	4 hrs approx.
While not in use (Standby)	40 hrs approx.

- Times indicated are for peak performance.
- The battery operating time may be shortened depending on usage conditions and ambient temperature.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- The batteries cannot be overcharged unless they are repeatedly removed and replaced.
- For maximum battery life, it is recommended that the handset not be recharged until the battery icon flashes .

Replacing the Batteries

If the icon flashes after a few telephone calls even when the handset batteries have been fully charged, both batteries must be replaced.

- **Charge new batteries for approximately 7 hours before initial use. (The telephone line cord must not be connected to the telephone socket at this time.)**
- **When replacing the batteries, be sure to set up the battery type even if you install the same type of batteries to initialise battery remaining memory of your handset. (See Setting the Battery Type on page 52.)**
- Do not use non-rechargeable batteries. If non-rechargeable batteries are fitted and start charging, it may cause the leakage of the battery electrolyte.
- Press the notch on the cover firmly and slide it as indicated by the arrow. Replace both batteries (p. 10) and close the cover then charge the handset for about 7 hours.

Please order Panasonic P03P (Ni-MH) or P03H (Ni-Cd) batteries.

Setting up

Power ON/OFF

Power ON

Press and hold **POWER**.

When **POWER** is released, the display changes to the standby mode.

Power OFF

Press and hold **POWER**.

The display goes blank.

Selecting the Display Language

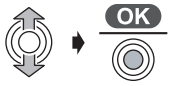
You can select one of 19 languages. The factory preset is Dutch.

To exit the operation, press at any time.

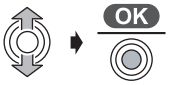
1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

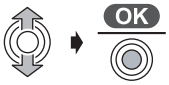
3 Select "Display Option".



4 Select "Select Language".



5 Select the desired language.



- If you set a language you cannot read, reset the handset to its initial settings.

  Press ➧ Press ➧ Move ➧ Press ➧ Move ➧ Press ➧ Move ➧ Press ➧ Enter 4-digit Handset PIN (Factory Preset 0000) ➧ Move ➧ Press

  All handset settings will be reset to their initial settings (p. 54), however, the phonebook data will be saved.

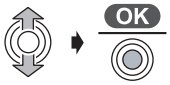
Setting the Date and Time

After a mains power failure, the clock needs to be adjusted. Ensure that the ᛉ icon is not flashing.
To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Set Date/ Time".



4 Enter the date (see below).

5 Enter the time (see below).

6 Press **JOYSTICK**.

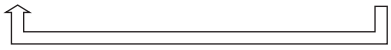
Example: To set 16 February, 2003, 7:15 pm.

Date			Time		
Day	Month	Year	Hour	Minute	12/24 hour clock
1 6	0 2	0 3	0 7	1 5	12/24 12/24

To Select 12/24 Hour Clock

Press **RIGHT SOFT KEY** repeatedly.

24 hour clock ➧ 12 hour clock (AM) ➧ 12 hour clock (PM)



Preparation

Using the Telephone

Making a Call

Pre-Dialling

1 Enter Phone Number. **2** Press **TALK**.

Post-Dialling

1 Press **TALK**. **2** Enter Phone Number.

- When using **Pre-Dialling**:
  If you need to make a correction while entering the phone number, press C. The digit is cleared to the left, then you can enter numbers. All digits are cleared if you press and hold C.
- You can also press ☎ to make a call.

Answering a Call

Press **TALK**.

Terminating a Call

(During a call) Press **TALK OFF**.

- You can also answer a call by pressing 0 to 9, *, #, ☎ or INT (**Any Key Talk**).

Auto Talk

If you set **Auto Talk** to ON, you can answer a call by lifting the handset off the base unit. (See **Setting Auto Talk ON/OFF** on page 52.)

Receiver (or Headset Receiver)/Speaker Volume

The choices for the receiver (or headset receiver) volume are 3 levels, and 6 levels for the speakerphone volume.

(During a call) ➧ To increase volume, move the **JOYSTICK** up.
To decrease volume, move the **JOYSTICK** down.

Have a Hands-Free Phone Conversation (using Digital Speakerphone)

Speakerphone allows you to talk to your caller without holding the handset and allows other persons in the room to listen to the conversation.

(During a call) ➧ Press **SPEAKERPHONE**.

To Return to Receiver

Press **TALK**.

- For best performance, please note the following:
- Talk alternately with the caller in a quiet environment.
- If either party has difficulty hearing, move the **JOYSTICK** up or down to change the volume accordingly. The choices for the speakerphone volume are 6 levels.

Muting Your Conversation

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

To Mute

(During a call) ➧ Press **LEFT SOFT KEY**, then Icon flashes.

To Return to the Conversation

Press once more.
Icon stops flashing.

Using the Telephone

Key Lock

You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is ON. When the key lock is ON, the menu icon changes to .

When the key lock is ON, emergency calls cannot be made until key lock is cancelled.

Key Lock ON

(Standby Mode Display) ➧ Press and hold **JOYSTICK** directly for more than 2 seconds.

Key Lock OFF

Press and hold **JOYSTICK** directly for more than 2 seconds once more.

Handset Locator/Paging

You can locate a misplaced handset by paging it.

Paging

<Base Unit>

Press **PAGE**.

➧ **<All Handsets>**

All registered handsets ring for 1 minute.

To Stop Paging

<Base Unit>

Press **PAGE**.

OR

<One of Handsets>

Press **TALK.**

- You can also stop paging by pressing 0 to 9, INT, #, *, 1 or C.
- When the ringer volume is off (p. 46), the handset will ring at the lowest level.

Redialling

The last 10 numbers dialled are automatically stored in the redial list.

Dialling with the Redial List

1 Press **RIGHT SOFT KEY**.	***2*** Search for the desired dialled item.	***3*** Press **TALK**.

- If there are no items stored in the redial list when pressing , the display shows "Memory Empty".
- If the items are scrolled at the end when you search for the desired dialled item, an end tone sounds.
- You can also press to make a call.
- To save the numbers from the redial list into the phonebook, or to edit or delete from memory, see pages 21 and 22.

Dialling the Last Number Dialled

1 Press **TALK**.	***2*** Press **RIGHT SOFT KEY**.

Auto Redial

If you press then to redial and the dialled number is engaged, the unit will automatically call back every 40 seconds, up to 12 times. When using Auto Redial, press again after pressing if the mute has not been cancelled.

Recall Feature

RECALL (R) is used to access special telephone services. Contact your Network provider for details. If your unit is connected to a PBX, pressing (R) allows you to access some features of your host PBX such as transferring an extension call.

Using the Telephone

Dialling Pause (for PBX line/long distance service users)

A dialling pause is used when a pause in the dialling of a phone number is necessary using a PBX or accessing a long distance service.
For example, when 0 (line access number) is dialled followed by a pause to access an outside line through a PBX:

1 Press **0**.	2 Press **RIGHT SOFT KEY**.	3 Enter Phone Number.	4 Press **TALK**.

- Entering a pause prevents misdialling when you redial or dial a stored number.
- Pressing **RIGHT SOFT KEY (Pause)** more than once increases the length of the pause between numbers.
- To change the pause time, see **Selecting the Pause Time** on page 56.

Call Waiting

Call Waiting is a service of your Network provider and will only operate if you have subscribed to this service. You can answer the second call, keeping the first call on hold.

(Call waiting tone sounds during a call)	➧	Press **RECALL**.	➧	The first call is put on hold and you can answer the second call.

To Return to the First Caller

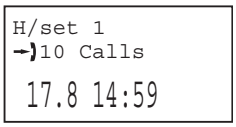
Press **RECALL** once more.

- If you subscribed to Caller ID and Call Waiting services, your handset displays a second caller's phone number while talking.
- If the phone number is stored in the phonebook with its name, the caller's name will also be displayed.
- Please consult your Network provider for details of this service.

Caller ID Service

Caller ID is a service of your Network provider and will only operate if you have subscribed to this service.
After subscribing to Caller ID, this phone will display the caller information.
If your unit is connected to a PBX or a telephone line that does not support this service, you will not be able to use it.

Standby Mode Display



When new calls have been received, the display shows the number of calls.
In the example on the left, 10 new calls have been received.

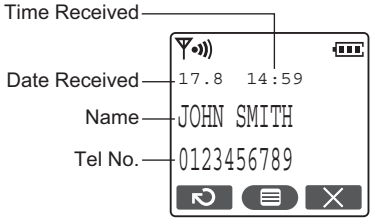
Making a Call from the Caller ID List

The last 50 callers' phone numbers are stored in the order the calls were received. When the 51st call is received, the oldest caller information is cleared. If the caller's name has been stored with the number in the phonebook (see **Storing Caller Information** on page 24), the caller's name will also be displayed.
To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "Caller ID".

3 The newest caller information is displayed.



4 Search for the desired item.

5 Press **TALK**.

- You can also press to make a call.
- "✓" indicates you have already viewed this caller information, or answered the call.
- If the caller has requested not to display his/her information, the display shows "Private Caller".
- If the caller dialled from an area which does not provide Caller ID service, the display shows "Out of Area".
- If the items are scrolled at the end when you search for the desired item, an end tone sounds.

List Menu

Caller ID List Menu

You can save the numbers from the Caller ID list into the Phonebook, and you can edit (for calling) or delete item(s) in the Caller ID List.
To exit the operation, press at any time.

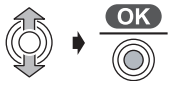
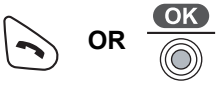
1 Press **JOYSTICK** (or move).	2 Select "Caller ID".	3 Select the desired item.

Go to step **4**.

- If the items are scrolled at the end when you search for the desired item, an end tone sounds.
- If there are no items stored in the caller list when "Caller ID" is selected, the display shows "Memory Empty".

Editing the Received Number for Calling

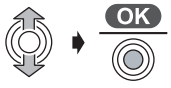
Follow steps **1** to **3** shown above, then:

4 Select "Edit for Call".	5 Edit Phone Number. (max. 24 digits)	6 Press **TALK** or press **JOYSTICK** to call.
		

- You can also press to make a call.

Storing the Number in the Phonebook

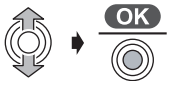
Follow steps **1** to **3** shown above, then:

4 Select "Save Phonebook".	5 Enter Name (p. 25), then press . (max. 16 characters) If required, edit phone number. (max. 24 digits)	6 Press **JOYSTICK**.
7 Select the desired category or "Off" (p. 23).	**8** Select "Save", then "Saved" is displayed.	
		

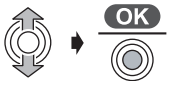
◆**Deleting One/All Caller ID Item(s)**

Follow steps **1** to **3** on the previous page, then:

4 Select "`Delete`" or "`Delete All`".



5 Select "`Yes`", then "`Deleted`" is displayed.



◆◆Redial List Menu

You can save the numbers from the redial list into the Phonebook, and you can edit (for calling) or delete item(s) in the redial list.
To exit the operation, press ⏻ at any time.

1 Press **RIGHT SOFT KEY**.

2 Select the desired item.

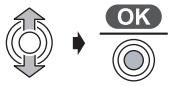
Go to step **3**.

- If there are no items stored in the redial list when pressing , the display shows "`Memory Empty`".

◆**Storing the Number in the Phonebook**

Follow steps **1** and **2** shown above, then:

3 Select "`Save Phonebook`".

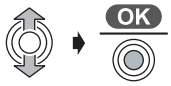


4 Enter Name (p. 25). (max. 16 characters)

5 Press **JOYSTICK** twice.

twice

6 Select the desired category or "`Off`" (p. 23).



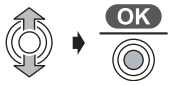
7 Select "`Save`", then "`Saved`" is displayed.

List Menu

◆Editing the Dialled Number for Calling

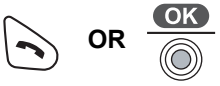
Follow steps **1** and **2** on the previous page, then:

3 Select "`Edit for Call`".



4 Edit Phone Number. (max. 24 digits)

5 Press **TALK** or press **JOYSTICK** to call.

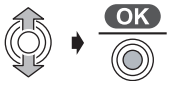


- You can also press (hands-free) to make a call.

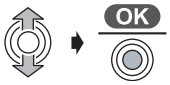
◆Deleting One/All Redial Item(s)

Follow steps **1** and **2** on the previous page, then:

3 Select "`Delete`" or "`Delete All`".



4 Select "`Yes`", then "`Deleted`" is displayed.



Using the Phonebook

You can store up to 200 caller information in the phonebook. If you subscribed to Caller ID and you received a call from the same phone number you stored with name in the phonebook, the display will show the caller's name.

Private Category Feature

You can categorise caller information in the phonebook. There are 9 categories available. For example, category 1 can be used to save friends' numbers. For each category, you can change the category name (max. 10 characters: see **Changing the Private Category Name** on page 48), you can select one of 3 Ringer LED colours (see **Setting the Private Colour** on page 48), and one of 15 ringer types (see **Selecting the Ringer Pattern for Private Ring** on page 46).
This feature is only available after subscribing to Caller ID Service. Please contact your network provider for further information.

Example

Private Category No.	Ringer LED Colour *			Private Ringer Type	Category Name
	Green	Orange	Red		
1		✓		3	Friends
3			✓	2	Customers

* The factory preset LED colour is green.
- The unit will indicate an incoming call using the factory preset LED colour (green) and the ringer pattern assigned to external calls (p. 46) momentarily until Caller ID information is received from the Network provider.

Using the Phonebook

Storing Caller Information

To exit the operation, press at any time.

1 Press **LEFT SOFT KEY**.

2 Press **JOYSTICK**, then the display shows the number of empty phonebook entries.

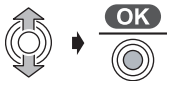
3 Enter Name. (max. 16 characters: see next page)

4 Press **JOYSTICK**.

5 Enter Phone Number. (max. 24 digits)

6 Press **JOYSTICK**.

7 Select the desired category or "Off".



8 Select "Save", then "Saved" is displayed.

- If "Memory Full" is displayed when you press , the phonebook is full. To store, delete other stored items in the phonebook.
- To continue storing other caller information, repeat from step **3**.

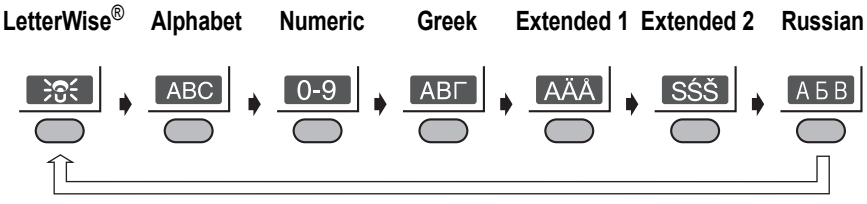
Entering Names/Characters

Keys	Operations
	Move the **JOYSTICK** up, down, left or right to move the cursor (a flashing digit).
0 to 9	Press to enter letters/numbers. (Items are added to the left of the cursor. If the cursor is at the beginning of a line, the item is added at the beginning.)
C	Press to delete characters. (Character on the cursor is deleted. To delete all characters, press and hold.)
A→a✳	Press to change between upper and lower case.
0	Press to insert a blank space (except when in Numeric input mode).
1	Press to insert a symbol (✳, #, /, etc.) (except when in Numeric input mode).

Selecting the Input Mode

You can select one of 7 input modes by pressing **RIGHT SOFT KEY** while entering a name. The function icon above the key displays the current input mode. The factory preset is "**LetterWise®**". **LetterWise®** is a simplified text entry system. This system suggests to the user the most likely letter to follow the text entered previously. To enter names in this mode, see page 33.
For the full character map, see **Phonebook Character Table** (p. 76).

To switch the input mode while editing the name in the phonebook, press **RIGHT SOFT KEY.**



- If **LetterWise®** is selected, select a language you require (p. 52).

Example (Alphabet Mode)
Enter the name using the letters on the keypad. For example, to enter "Anne" in Alphabet Mode:

Using the Phonebook

Finding Items in the Phonebook

All phonebook items are stored in the following order: Alphabet letter/Symbol/Number/ Telephone Number (when a name is not stored).

To exit the operation, press ⏻ at any time.

1 Press **LEFT SOFT KEY**.

2 Move the **JOYSTICK** up or down to search for the desired item.

Searching for a Name by Initial

Example: To find “Felix”

1 Press **LEFT SOFT KEY**.

2 Press **3** repeatedly until the first item under “F” is displayed.

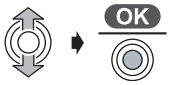
3 Move the **JOYSTICK** down until “Felix” is displayed.

Searching by Private Category

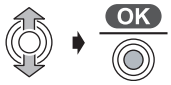
1 Press **LEFT SOFT KEY**.

2 Press **RIGHT SOFT KEY**.

3 Select “`Category`”.



4 Select the desired category.



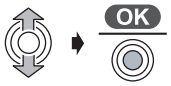
5 Select the desired item to display.

◆**Searching by Index Search Mode**
Example: To find "ΣΟΦΙΑ" (SOPHIA).

1 Press **LEFT SOFT KEY**.

2 Press **RIGHT SOFT KEY**.

3 Select "`Index Search`".



4 Press **RIGHT SOFT KEY** repeatedly until the desired input mode (Greek) appears.

5 Select the desired initial character "Σ".

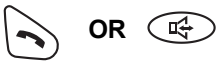
6 Move the **JOYSTICK** down until "ΣΟΦΙΑ" is displayed.

◆◆Dialling from the Phonebook

1 Press **LEFT SOFT KEY**.

2 Select the desired item (see above and previous page).

3 Press **TALK** or **SPEAKERPHONE**.



◆◆Editing Caller Information

To exit the operation, press at any time.

1 Press **LEFT SOFT KEY**.

2 Select the desired item.

3 Select "`Edit`".

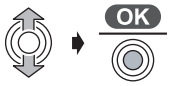
4 Edit Name. (max. 16 characters)

5 Press **JOYSTICK**.

6 Edit Phone Number. (max. 24 digits)

7 Press **JOYSTICK**.

8 Select the desired category or "`Off`".



9 Select "`Save`", then "`Saved`" is displayed.

- To continue editing other caller information, repeat from step **2**.

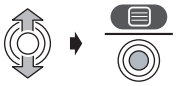
Using the Phonebook

Deleting Caller Information

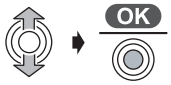
To exit the operation, press ⏻ at any time.

1 Press **LEFT SOFT KEY**.

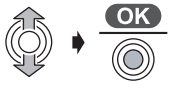
2 Select the desired item.



3 Select "Delete".



4 Select "Yes", then "Deleted" is displayed.



- To continue deleting other caller information, repeat from step **2**.
- If there are no items stored in the phonebook when searching for the desired item, the display shows "Memory Empty".

Hot Keys

You can assign the dialling buttons 1 through 9 as hot keys. You can choose 9 phone numbers from the phonebook.

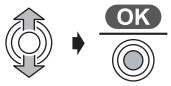
To exit the operation, press ⏻ at any time.

Registering a Phone Number as a Hot Key

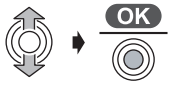
1 Press **LEFT SOFT KEY**.

2 Select the desired item.

3 Select "Reg. to Hot Key".



4 Select the desired dialling button number.



5 Select "Save", then "Saved" is displayed.

- If there are no items stored in the phonebook when searching for the desired item, the display shows "Memory Empty".
- If an item is already assigned to a hot key, "✓" will be displayed on the left of the key number. If a hot key number with "✓" is selected, press to select "Overwrite".

Dialling with a Hot Key

1 Press and hold the dialling button registered as a hot key until a phone number is displayed.

2 Press **TALK** or **SPEAKERPHONE**.

OR

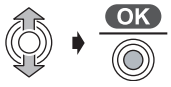
Deleting the Hot Key Registration

1 Press and hold the dialling button registered as a hot key until a phone number is displayed.

2 Press **JOYSTICK**.

3 Select "Delete".

4 Select "Yes", then "Deleted" is displayed.



- Phonebook registration will not be erased when hot key registration is deleted.

SMS Feature (Text Message)

You can send and receive text messages between other fixed and mobile phones that also support a compatible SMS feature and network.

The SMS feature is only available after subscribing to Caller ID.

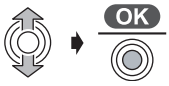
Writing and Sending a New Message

To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "✉ SMS".

3 Select "Create".



4 Enter Message (p. 32, 33).

5 Press **JOYSTICK**, then "Destination" is displayed.

Go to step **6**.

Entering a Number Manually

Follow steps **1** to **5** shown above, then:

6 Enter Phone Number. (max. 20 digits) ➧ Press **JOYSTICK**.

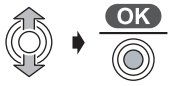
Go to step **7** on the next page.

Entering a Number from the Phonebook

Follow steps **1** to **5** shown above, then:

6 Press **LEFT SOFT KEY**.

➧ Select the desired item (p. 26).



twice

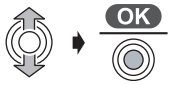
Go to step **7** on the next page.

SMS Feature (Text Message)

◆Entering a Number from the Caller ID List

Follow steps **1** to **5** on the previous page, then:

6 Select the desired item.



twice

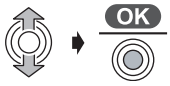
Go to step **7**.

◆Entering a Number from the Redial List

Follow steps **1** to **5** on the previous page, then:

6 Press **RIGHT SOFT KEY**.

Select the desired item.

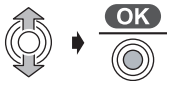


twice

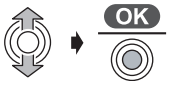
Go to step **7**.

Follow steps **1** to **6** on previous page and above, then:

7 "Save?" is displayed, then select "Yes" or "No".
(If "Yes" is selected, "Saved Message" is displayed.)



8 Select "Send".



- "Sending Message" is displayed after step **8**. The display returns to the standby mode, then "Transferring Message" is displayed.
- If the base unit does not have sufficient memory to send a message, the display will show "SMS lists are memory full. Delete messages.". The unit will then return to the function menu.
- Once you have created an SMS message, the unit will display "▲Use Last Text?" each time you select "Create". If you want to use the text of the last message sent once again, move the **JOYSTICK** up to recall the last message.
- If you try to send a message using a phone number (Destination) over 20 digits long from one of the Phonebook, Caller ID or Redial lists, "Invalid Number" is displayed and the display returns to "<Enter Phone No>".
- The maximum message length is 160 characters. Please consult your SMS service provider for further details.
- 69 messages can be memorized when you enter 80 characters/1 message.
- If your phone is connected to PBX (Private Branch eXchange: private branch exchange), see page 40 to enter the destination number.

SMS Feature (Text Message)

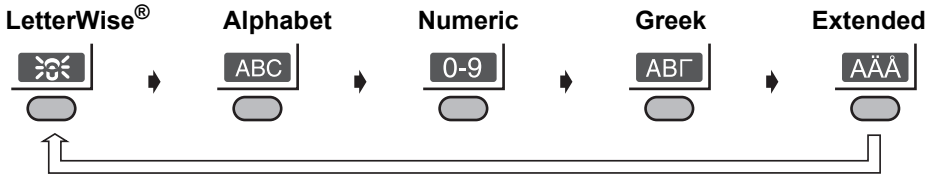
Text Entry

Keys	Operations
	Move the **JOYSTICK** up, down, left or right to move the cursor.
0 to 9	Press to enter letters/numbers. (Items are added to the left of the cursor. If the cursor is at the beginning of a line, the item is added at the beginning.)
C	Press to delete characters. (Character on the cursor is deleted. To delete all characters, press and hold.)
A→a✱	Press to change between upper and lower case.
0	Press to insert a blank space (except when in Numeric input mode).
1	Press to insert symbol (✱ , #, /, etc.) (except when in Numeric input mode).

Selecting the Input Mode

There are 5 text input modes: **LetterWise®** (default mode), Alphabet (ABC), Numeric (0-9), Greek (ABΓ) and Extended (AÄÅ). The function icon above the key displays the current input mode. For the full character map, see **SMS Character Table** (p. 77).

To change the input mode while inputting a message, press **RIGHT SOFT KEY**.



- If **LetterWise®** (see next page) is selected, select a language you require (p. 52).

Entering Text in LetterWise® Mode

LetterWise® is the default input mode. **LetterWise®** is a simplified text entry system. This system suggests to the user the most likely letter to follow the text entered previously.

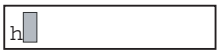
Inserting Operations
Enter letters by pressing (ABC2) - (WXYZ9).
If the letter displayed is not correct, change the letter by pressing (#) (possibly several times).
Continue writing the word always checking that the letters displayed are correct and change them if necessary.
To insert symbols, use (1). If the symbol you want does not appear, press (#) repeatedly until the required symbol appears.

Example (When the language choice is English)
To enter "hello".

1 Press (*) to change to the small letter.

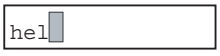
2 Press (GHI4). "i" is the most frequent first letter of a word.

3 Press (#) to display the next candidate letter. "h" is the second most frequent letter.

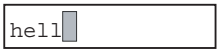


4 Press (DEF3). "e" is most frequent letter.

5 Press (JKL5). "l" is most frequent letter.



6 Press (JKL5). "l" is most frequent letter.



7 Press (MNO6). "o" is most frequent letter.

SMS Feature (Text Message)

Reading/Displaying Messages in the Outgoing List

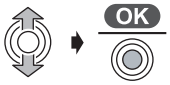
You can display saved messages in date/time order.
To exit the operation, press (P) at any time.

Reading/Displaying messages

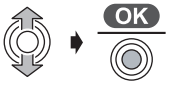
1 Press **JOYSTICK** (or move).

2 Select "✉ SMS".

3 Select "Send List".



4 Select the desired message.



5 Scroll through the message to **read/display**.

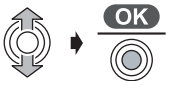
6 Press **JOYSTICK**.

Go to step **7**.

Sending a Message

Follow steps **1** to **6** shown above, then:

7 Select "Send".

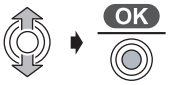


➧ Follow from step **6** of **Writing and Sending a New Message** (p. 30, 31).

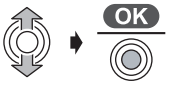
Deleting a Message

Follow steps **1** to **6** shown above, then:

7 Select "Delete".



8 Select "Yes", then "Deleted" is displayed.

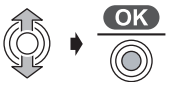


- You can also delete by pressing (C) then selecting "Yes" on step **4**.

Editing a Message

Follow steps **1** to **6** shown above, then:

7 Select "Edit Message".

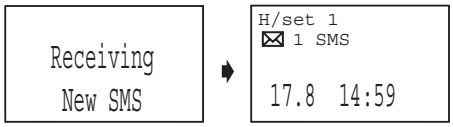


➧ Edit Message, then follow from step **5** of **Writing and Sending a New Message** (p. 30).

SMS Feature (Text Message)

Receiving a Text Message

When a new message has been received, the display shows the following and a tone sounds. The number indicates how many mails were received.



- When the SMS message memory is full, "Full" is displayed. No messages can be received if the memory is full.

SMS Feature (Text Message)

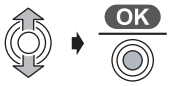
Reading/Displaying Messages in the Incoming List

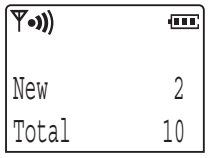
To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

2 Select "✉ SMS".

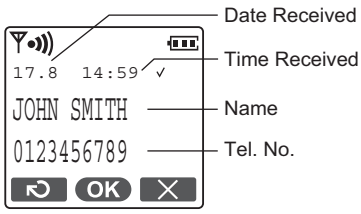
3 Select "Receive List".



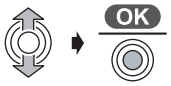


4 Move the **JOYSTICK** down.

- The most recent sender's details are displayed.
- If the name and number have been stored in the phonebook, the name is also displayed.
- You can delete a message by pressing ✕ then selecting "Yes".



5 Select the desired message.



6 Scroll through the message to **read/display**.

Go to step **7** on page 37 and 38.

- If there is a "✓" icon placed against the time, this means the message has been read or displayed previously.
- If the list is accessed and no messages have been received, "Receive List Memory Empty" is displayed.
- If the base unit does not have sufficient memory to receive a message, the display will show "SMS lists are memory full. Delete messages.".
- Certain SMS service providers may attach a 1-digit number to the sender's phone number. If so, the name will not be displayed even if the name and number have been stored in the phonebook.

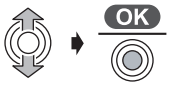
SMS Feature (Text Message)

◆Replying to a Message

Follow steps **1** to **6** on the previous page, then:

7 Press **JOYSTICK**.

8 Select "Reply".

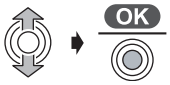


9 Enter Message.

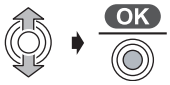
10 Press **JOYSTICK** twice.

twice

11 "Save?" is displayed, then select "Yes" or "No". (If "Yes" is selected, "Saved Message" is displayed.)



12 Select "Send".



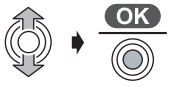
- "Sending Message" is displayed. The display returns to the standby mode, then "Transferring Message" is displayed.
- If the base unit does not have sufficient memory to send a message, the display will show "SMS lists are memory full. Delete messages.".

◆Deleting a Message

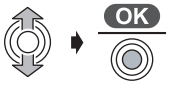
Follow steps **1** to **6** on the previous page, then:

7 Press **JOYSTICK**.

8 Select "Delete".



9 Select "Yes", then "Deleted" is displayed.



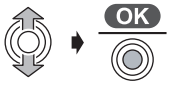
SMS Feature (Text Message)

◆Editing a Message

Follow steps **1** to **6** on page 36, then:

7 Press **JOYSTICK**.

8 Select "Edit Message".



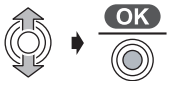
9 Edit Message, then follow from step **5** of **Writing and Sending a New Message** (p. 30).

◆Storing the Sender's Phone Number in the Phonebook

Follow steps **1** to **6** on page 36, then:

7 Press **JOYSTICK**.

8 Select "Save Phonebook".



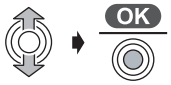
9 Follow steps from **3** to **8** of **Storing Caller Information** (p. 24).

◆Editing the Sender's Phone Number for Calling

Follow steps **1** to **6** on page 36, then:

7 Press **JOYSTICK**.

8 Select "Edit for Call".



9 Edit Phone Number. (max. 24 digits)

10 Press **JOYSTICK, TALK** or **SPEAKERPHONE**.

◆Calling the Message Sender

Follow steps **1** to **5** (or **4**) on page 36, then:

6 Press **TALK** or **SPEAKERPHONE**.

SMS Feature (Text Message)

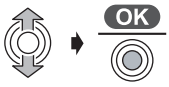
Changing the SMS Service Centre Numbers

To send and receive SMS text messages, you need your SMS Message Centre telephone numbers.
Two numbers have been preset in your phone.
The phone number for SMS Message Centre 1 is used to SEND text messages while the number for Message Centre 2 is used to RECEIVE text messages.
You can change the preset numbers if required.
To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

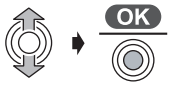
2 Select "✉ SMS".

3 Select "Parameters".



4 Enter 4-digit Base Unit PIN.
(Factory Preset 0000)

5 Select Message Centre 1 or 2.



6 Erase the current number by pressing C, then enter the new Message Centre number.

7 Press **JOYSTICK**.

8 Select "Save", then "Saved" is displayed.

For your reference, these are the numbers that have been preset in your phone.
Message Centre 1: 0673644444
Message Centre 2: 06736444440

- If your phone is connected to a PBX, you need to add the PBX line access number (and a dialling pause) to the Message Centre 1 phone number.

SMS Feature (Text Message)

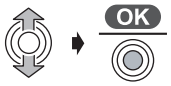
Setting the PBX Line Access Number

This feature is only for the phones connected to a PBX. This allows you to delete automatically the PBX line access number (max. 4 digits) when you enter the destination phone number of an SMS outgoing message from Phonebook, Redial or Caller ID lists.
To exit the operation, press at any time.

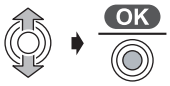
Follow steps **1** to **3** on the previous page, then:

4 Enter 4-digit Base Unit PIN.
(Factory Preset 0000)

5 Select "PBX Prefix".



6 Select "On".



7 Enter Line Access Number.
(max. 4 digits)

8 Press **JOYSTICK**.

9 Select "Save", then "Saved" is displayed.

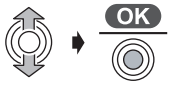
Turning the SMS Feature On/Off

To exit the operation, press at any time.

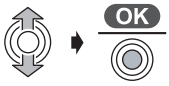
Follow steps **1** to **3** on the previous page, then:

4 Enter 4-digit Base Unit PIN.
(Factory Preset 0000)

5 Select "SMS On/Off".



6 Select "On" or "Off".



When the SMS feature is turned off;
- If you send a message, a tone sounds and the message will return to the SMS incoming list with "FD" attached.
- If you receive from SMS centre call, the message will not be received but SMS centre phone number will remain in the Caller ID list.

- If you turn the SMS feature on, the unit will begin ringing (one ring) after other connected telephones.
- The factory preset is "On".

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Handset Settings Menu Chart

1st Menu	2nd Menu	3rd Menu
Setting Handset	Set Date/Time	
	Memo Alarm	
	Ringer Option	Ringer Volume
		EXT Ringer Type
		INT Ringer Type
		Paging Tone
		Private Ring
	Tone Option	Key Tone
	Display Option	Standby Display
		Talk Display
		Select Language
		Private Colour
		Category Name
	Call Option	Call Bar
		Direct Call No.
		Direct On/Off
	Registration	Register H/set
		Cancel Base
	Select Base	Auto
		Base 1 ⋮ Base 4
	Other Option	Change H/S PIN
		Change H/S Name
		Auto Talk
		LetterWise
		Battery Type
		Reset Handset

Settings Menu Chart

Base Unit Settings Menu Chart

1st Menu	2nd Menu	3rd Menu
Setting Base	Ringer Option	Ringer Volume
	Call Option	Recall
		Pause Time
		Emergency Call
		Set ARS
		Call Restricted
	Cancel Handset	
	Other Option	Change Base PIN
		Reset Base

Memo Alarm

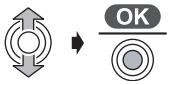
Set the date and time before setting the memo alarm (p. 13).

To exit the operation, press ⏻ at any time.

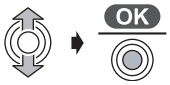
1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Memo Alarm".



4 Select the desired alarm number (1-3).

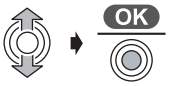


Go to step **5**.

Setting the Alarm Mode "Once" or "Daily"

Follow steps **1** to **4** shown above, then:

5 Select "Once" or "Daily".

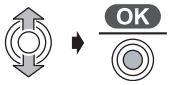


6 "Once": Enter the date and the time. "Daily": Enter the time.

7 Press **JOYSTICK**.

8 Enter a memo message (max. 32 characters, p. 25) then press **JOYSTICK**.

9 Select the desired ringer pattern.



10 Select "Save", then "Saved" is displayed.

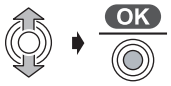
- When setting the time, remember to select 12 or 24 hour clock (p. 13).
- Memo Alarm volume depends on handset ringer volume. Even if you set ringer to off, only Memo Alarm still rings.
- When in talk or intercom mode, the alarm will not sound until the call is ended.

Handset Settings

◆Setting the Alarm "Off"

Follow steps **1** to **4** on the previous page, then:

5 Select "Off".



6 Select "Save", then "Saved" is displayed.

- The factory preset is "Off".
- To delete the displayed memo alarm, press then select "Yes" on step **4** on the previous page.

◆To Stop the Alarm

(The Alarm sounds: Max. 3 minutes) ➧ Press .

- You can also stop the alarm by pressing , , to , , or .
- If "Once" is selected, the setting is turned off.

Ringer Options

There are 15 ringer patterns available on each ringer. "Ringer 1" to "Ringer 6" are the bell ringer patterns. "Ringer 7" to "Ringer 15" are the preset melody patterns as shown below. The music data in this product belongs to M-ZoNE Co., Ltd.

To exit the operation, press (0) at any time.

Ringer No.	Ringer Pattern or Name	
1 - 6	Bell Patterns	
Ringer Pattern 7 to 15: Preset Melody Patterns		
7	Symphony No.5 in C minor	*
8	Air on G String	
9	Wholetemperiere Clavier 1 Teil No 1 Fuga Das	
10	Fantaisie Impromptu	
11	Allegro Spring/The Four Seasons	
12	Also Sprach Zarathustra	
13	Liebestraum	
14	Polovetsian Dance	
15	24 Caprices	

* © 2003 M-ZoNE Co., Ltd.

- If you select one of the melody ringer patterns, the phone will ring for 5 seconds even if a caller has hung up. Therefore, you may hear a dial tone or no one on the line after you answer a call.

Handset Settings

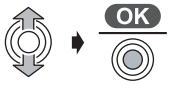
◆Setting the Ringer Volume

The choices are 6 levels and off. If you set the volume to OFF, "🔕" is displayed, however, still the volume of a paging and intercom call are level 1.

1 Press **JOYSTICK** (or move).

2 Select "Ringer Option".

3 Select "Ringer Volume".



4 To increase volume, move the **JOYSTICK** up.
To decrease volume, move the **JOYSTICK** down.

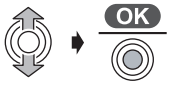
5 Press **JOYSTICK**.

- The factory preset is 6.

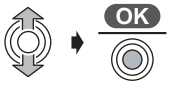
◆Selecting the Ringer Pattern for External Call/Internal Call/Paging

Follow steps **1** to **2** shown above, then:

3 Select "EXT Ringer Type", "INT Ringer Type" or "Paging Tone".



4 Select the desired ringer pattern.

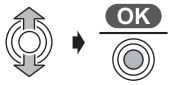


- The factory preset is 1.

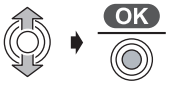
◆Selecting the Ringer Pattern for Private Ring

Follow steps **1** to **2** shown above, then:

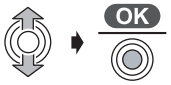
3 Select "Private Ring".



4 Select the desired category.



5 Select the desired ringer pattern.



- The factory preset of each ringer pattern is 1.

Setting the Handset Key Tone ON/OFF

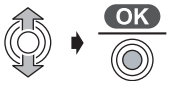
You can turn the key tone ON/OFF.

To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

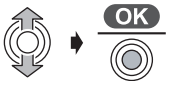
2 Select "Setting Handset".

3 Select "Tone Option".



4 Press **JOYSTICK** to select "Key Tone".

5 Select "On" or "Off".



- The factory preset is "On".

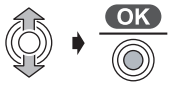
Display Options

To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Display Option".

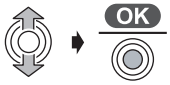


Go to step **4**.

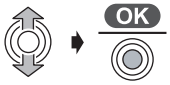
Selecting the Standby Mode Display

Follow steps **1** to **3** of **Display Options** shown above, then:

4 Select "Standby Display".



5 Select "Base Number", "Handset Name" or "Off".



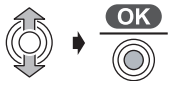
- The factory preset is "Handset Name".

Handset Settings

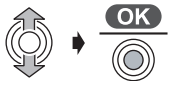
◆Selecting the Talk Mode Display

Follow steps **1** to **3** of **Display Options** on the previous page, then:

4 Select "Talk Display".



5 Select "Talk Time" or "Phone Number".

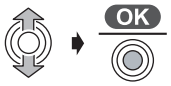


- Even if you select "Phone Number", the length of the call will appear on your display when you receive calls.
- The factory preset is "Talk Time".

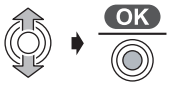
◆Setting the Private Colour

Follow steps **1** to **3** of **Display Options** on the previous page, then:

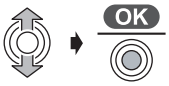
4 Select "Private Colour".



5 Select the desired category.



6 Select Private Colour "Green", "Red" or "Orange" for each category.

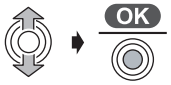


- The factory preset is "Green".
- When you select the private colour on step **6**, the Ringer LED will flash at the selected colour.

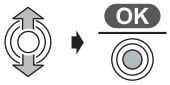
◆Changing the Private Category Name

Follow steps **1** to **3** of **Display Options** on the previous page, then:

4 Select "Category Name".



5 Select the desired category.



6 Edit Category Name (p. 25). (max. 10 characters)

7 Press **JOYSTICK**.

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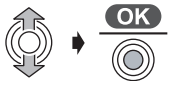
Call Options

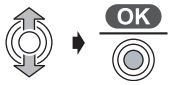
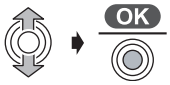
To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).	**2** Select "Setting Handset".	**3** Select "Call Option". 
		Go to step **4**.

Call Bar ON/OFF

When this feature is set to ON, outgoing calls cannot be made. Intercom calls and calls to numbers assigned as emergency numbers can be made (see **Setting the Emergency Calls** on page 57).

Follow steps **1** to **3** shown above, then:

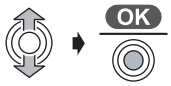
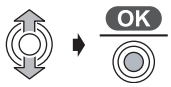
4 Select "Call Bar". 	**5** Enter 4-digit Handset PIN. (Factory Preset 0000)	**6** Select "On" or "Off". 

- While the Call Bar mode is turned on, "" is displayed.

Setting the Direct Call Number

After a direct call number has been set and the feature has been turned on, you can dial only the direct call number by pressing or . **When this feature is On, emergency calls cannot be made.** However, incoming calls can be answered.

Follow steps **1** to **3** shown above, then:

4 Select "Direct Call No.". 	**5** Enter Direct Call Number. (max. 24 digits)	**6** Press **JOYSTICK**.
7 Select "Save".	**8** Select "On". 	

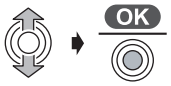
- While the direct call mode is turned on, "" is displayed.

Handset Settings

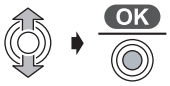
◆Setting the Direct Call ON/OFF

Follow steps **1** to **3** on the previous page, then:

4 Select "`Direct On/Off`".



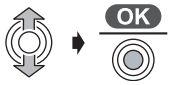
5 Select "`On`" or "`Off`".



- If the direct call mode is turned off, " " will disappear.
- If you did not set the Direct Call Number and select "`On`" in step **5**, "`<Enter Phone No>`" will be displayed. Enter the number, then press OK twice.

Other Options

To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).	**2** Select "Setting Handset".	**3** Select "Other Option". 
		Go to step **4**.

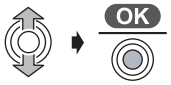
Changing Handset PIN (Personal Identification Number)

The factory preset is 0000.

Once you have programmed the handset PIN, you cannot confirm it. We recommend you write down the handset PIN. If you forget it, please consult your nearest Panasonic Service Centre. 070 - 3314500

Follow steps **1** to **3** shown above, then:

4 Select "Change H/S PIN".



5 Enter current 4-digit Handset PIN.

6 Enter new 4-digit Handset PIN.

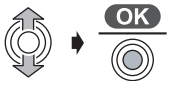
7 Enter new 4-digit Handset PIN again to verify.

Handset Settings

◆Changing Handset Name

Follow steps **1** to **3** on the previous page, then:

4 Select "`Change H/S Name`".



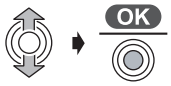
5 Edit Handset Name. (max. 10 characters)

6 Press **JOYSTICK**.

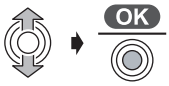
◆Setting Auto Talk ON/OFF

Follow steps **1** to **3** on the previous page, then:

4 Select "`Auto Talk`".



5 Select "`On`" or "`Off`".

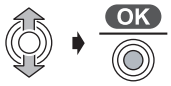


- The factory preset is "`Off`".

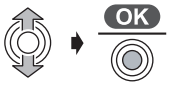
◆Changing the LetterWise® Language

Follow steps **1** to **3** on the previous page, then:

4 Select "`LetterWise`".



5 Select the desired language.

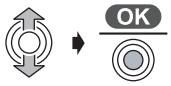


- The factory preset is "`Nederlands`".

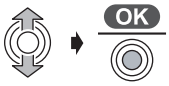
◆Setting the Battery Type

Follow steps **1** to **3** on the previous page, then:

4 Select "`Battery Type`".



5 Select "`Ni-Cd`" or "`Ni-MH`".



- The factory preset is "`Ni-MH`".

Handset Settings

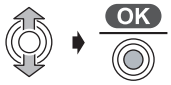
◆Resetting the Handset Settings

You can reset all of the handset settings to their initial settings.

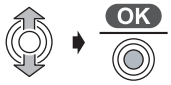
1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Other Option".

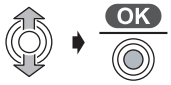


4 Select "Reset Handset".



5 Enter 4-digit Handset PIN.
(Factory Preset 0000)

6 Select "Yes", then "Gewist" is displayed.



Handset Settings

Handset Initial Settings

Functions	Initial Settings
Memo Alarm Mode	OFF
Alarm Time	Delete
Handset Ringer Volume	6
Handset External Ringer Pattern	1
Handset Internal Ringer Pattern	1
Handset Paging Tone Pattern	1
Handset Private Ringer Pattern	1
Handset Alarm Tone Pattern	1
Key Tone	ON
Standby Mode Display	Handset Name
Talk Mode Display	Talk Time
Display Language	Dutch
Call Bar Mode	OFF
Direct Call Mode	OFF
Direct Call Number	Delete
4-Digit Handset PIN	0000
Auto Talk	OFF
Select Base	Automatic Base Unit Selection
Redial Memory	Delete All
Handset Receiver Volume	Medium
Walkie-Talkie Setting	Group
SMS Text Input Mode	LetterWise®
LetterWise® Language	Dutch
Phonebook List	Remain
LED Colour of Private Category	Green
Battery Type	Ni-MH

Setting the Base Unit Ringer Volume

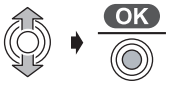
To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Base".

3 Enter 4-digit Base Unit PIN. (Factory Preset 0000)

4 Select "Ringer Option".



5 Select "Ringer Volume".

6 To increase volume, move the **JOYSTICK** up. To decrease volume or set to OFF, move the **JOYSTICK** down. (3 levels)

7 Press **JOYSTICK**.

- The factory preset is medium.

Base Unit Settings

Call Options

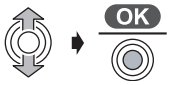
To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Base".

3 Enter 4-digit Base Unit PIN. (Factory Preset 0000)

4 Select "Call Option".



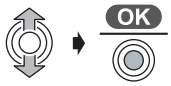
Go to step **5**.

Selecting the Recall Time

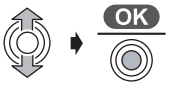
You can change the duration of the recall time depending on the requirements of your Network provider or PBX.

Follow steps **1** to **4** shown above, then:

5 Select "Recall".



6 Select "Type 1" (700 ms), "Type 2" (110 ms) or "Type 3" (200 ms).



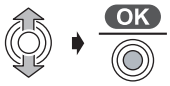
- The factory preset is "Type 2" (110 ms).

Selecting the Pause Time

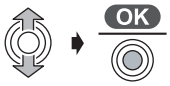
You can select the pause time to 3 or 5 seconds, depending on your PBX requirements.

Follow steps **1** to **4** shown above, then:

5 Select "Pause Time".



6 Select "Short" (3 sec.) or "Long" (5 sec.).



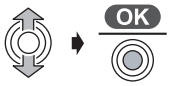
- The factory preset is "Short".

◆Setting the Emergency Calls

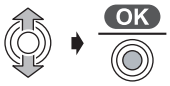
Even if handset is in Call Bar Mode, you can make an emergency call.

Follow steps **1** to **4** on the previous page, then:

5 Select "Emergency Call".



6 Select "Emergency Call1" to "Emergency Call5".



7 Enter Emergency Call Number.

8 Press **JOYSTICK**.

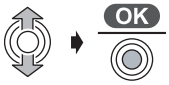
- The factory preset is **112**.

◆Call Restriction

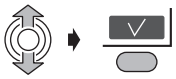
You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 6 call restriction numbers (up to 8 digits). If you dial a restricted number, the call does not connect and the restricted number flashes.

Follow steps **1** to **4** on the previous page, then:

5 Select "Call Restricted".

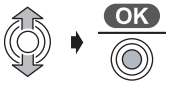


6 Search and press **RIGHT SOFT KEY** to attach (or cancel) "✓" to the desired Handset(s) to restrict.



7 Press **JOYSTICK**.

8 Select the restricted Number item (1-6).



9 Enter the restricted phone number (up to 8 digits).

10 Press **JOYSTICK**.

NOTE: When you put a first digit on step 9, it must overwrite the current displayed numbers. We recommend you to write down the restricted phone number you entered.

Base Unit Settings

Automatic Route Selection

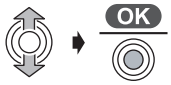
Automatic Route Selection is a feature which selects the least expensive carrier (network) service available, when making long distance calls.
When area code(s) have been related to carrier code, you will need only dial the area code, the lower costing carrier (network) will automatically be dialled.
Please contact your telephone company regarding the carrier telephone charges.

Storing the Carrier Code

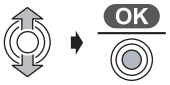
Firstly you must subscribe to a second carrier (network) service. Then store the code as follows:

Follow steps **1** to **4** on page 56, then:

5 Select "`Set ARS`".



6 Select "`Set Carrier`".



7 Select "`On`".

8 Enter Carrier Code. (max. 7 digits)

9 Press **JOYSTICK**.

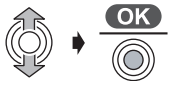
- **To turn the feature off**, select "`Off`" in step **7**.

Storing the Area Code(s)/Country Code(s)

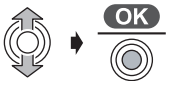
Store the area code(s) for which the chosen carrier (network) service charge rates are higher than the original carrier (network) service. Up to 25 area codes can be stored.
If you do not store any area codes, all phone numbers will be dialled with the second carrier code.

Follow steps **1** to **4** on page 56, then:

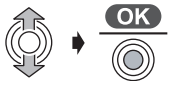
5 Select "`Set ARS`".



6 Select "`Set Area Code`".



7 Select the desired Area Code Number (1-25).



8 Enter Area Code. (max. 5 digits)

9 Press **JOYSTICK**.

◆International Carrier Services

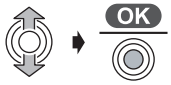
Automatic Route Selection (ARS) is also used for international calls.
After subscribing to a second international carrier service, store the second international carrier code.
For certain countries, the second international carrier service costs more than the first carrier service.
Store “00 (international code)” and then country codes (up to 25 codes) instead of area codes.
If you have stored a phone number beginning with “00 ” in the phonebook and you use a second carrier service which does not require “00 ”, turn the delete mode ON.

◆To Turn the International Code “00” Delete Mode ON/OFF

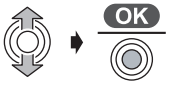
Some international carrier services do not require “00” before the country code.
In this case turn the delete mode ON. “00” will automatically be deleted when dialling.The factory preset is OFF.

Follow steps **1** to **4** on page 56, then:

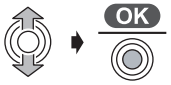
5 Select “`Set ARS`”.



6 Select “`Delete Intl No.`”.



7 Select “`On`” or “`Off`”.



Base Unit Settings

Other Options

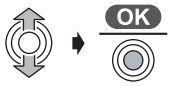
To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Base".

3 Enter 4-digit Base Unit PIN. (Factory Preset 0000)

4 Select "Other Option".



Go to step **5**.

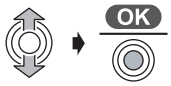
Changing the Base Unit PIN (Personal Identification Number)

The factory preset is 0000.

Once you have programmed the base unit PIN, you cannot confirm it. We recommend you write down the base unit PIN. If you forget it, please consult your nearest Panasonic Service Centre. 070 - 3314500

Follow steps **1** to **4** shown above, then:

5 Select "Change Base PIN".



6 Enter new 4-digit Base Unit PIN.

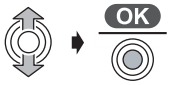
7 Enter new PIN again to verify.

Resetting the Base Unit Settings

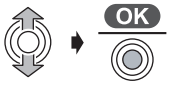
You can reset all of the base unit settings to their initial settings.

Follow steps **1** to **4** shown above, then:

5 Select "Reset Base".



6 Select "Yes", then "Deleted" is displayed.



Base Unit Settings

Base Unit Initial Settings

Functions	Initial Setting
Recall Time	Type 2 (110 ms)
Pause Time	Short (3 seconds)
Emergency Call Number	112
Call Restricted Handset(s)	Delete All
Call Restriction Number(s)	Delete All
4-Digit Base Unit PIN	0000
Base Unit Ringer Volume	Medium
SMS Message Centre Number 1	0673644444
SMS Message Centre Number 2	06736444440
Caller ID List	Delete All
SMS Message Lists	Delete All
SMS PBX Line Access Number Support ON/OFF	OFF
SMS PBX Line Access Number	Delete All
SMS Feature	ON
Carrier Code	Delete All
Area Code	Delete All
International Code “00”	OFF
Date/Time	31-12-03/00:00

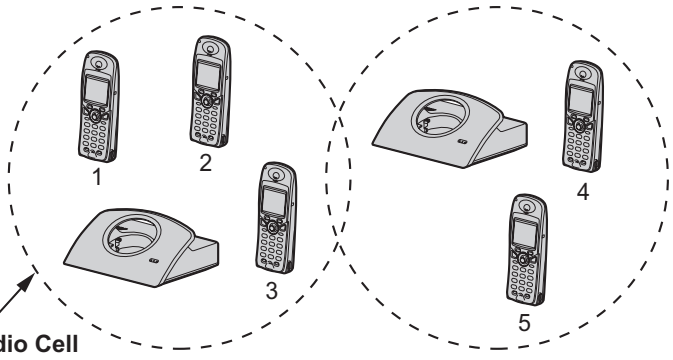
Multi-Unit User Operations

Operating Additional Handsets

Additional **KX-TCA151EX** handsets are available for purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously conducting a call to an outside line.

Operating Additional Base Units

You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the individual bases are linked to the same telephone line then you can extend the operating range of the system by positioning the bases so that the two radio cells overlap. If the handset is set to auto base selection, then in standby mode the handset will automatically swap to the second base if the range on the first base is exceeded. It is not possible to transfer calls between bases (only between handsets linked to the same base unit).



Example:
Additional handsets (KX-TCA151EX) registered with 2 base units.

NOTE: Calls are disconnected when the handset moves from one radio cell to another.

Handset Registration to a Base Unit

The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered as follows.

Charge the optional handset batteries for 7 hours before initial use.

Handset registration must be completed within 1 minute after pressing . If over 1 minute, press then start over again.

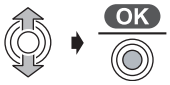
To exit the operation, press at any time.

1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Registration".

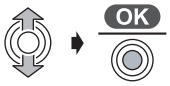
4 Select "Register H/set".



5 **Press and hold on the Base Unit (for about 3 seconds) until the tone sounds.**

- If all registered handset(s) start ringing (paging), press to stop paging then start over again.

6 Select the desired base unit.



7 Enter 4-digit Base Unit PIN.
(Factory Preset 0000)

8 Press **JOYSTICK**.

When a handset is registered successfully, a confirmation tone sounds and the icon is displayed.

- If you enter the incorrect Base Unit PIN, the error tone sounds and repeat from step **1**.
- The handset main menu may change corresponding to the base unit registered to.

Multi-Unit User Operations

◆Cancelling a Handset

Each handset can cancel itself or another handset. This feature is usually used to cancel a link between Handset and Base Unit.

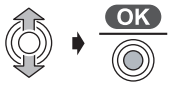
To exit the operation, press ⏻ at any time.

1 Press **JOYSTICK** (or move).

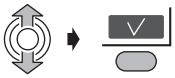
2 Select "Setting Base".

3 Enter 4-digit Base Unit PIN. (Factory Preset 0000)

4 Select "Cancel Handset".



5 Search and press **RIGHT SOFT KEY** to attach "✓" the handset(s) to cancel.



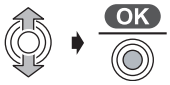
6 Press **JOYSTICK**.

◆Cancelling a Base Unit

If another handset is out of range and/or power is OFF when **Cancelling a Handset**, the previous base unit number will still remain in the cancelled handset. Therefore, you need to cancel the base unit registered in the cancelled handset. To exit the operation, press ⏻ at any time.

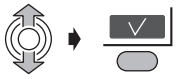
Follow steps **1** to **3** on the previous page, then:

4 Select "Cancel Base".



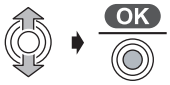
5 Enter 4-digit Handset PIN. (Factory Preset 0000)

6 Search and press **RIGHT SOFT KEY** to attach "✓" the base unit to cancel.



7 Press **JOYSTICK**.

8 Select "Yes", then "Deleted" is displayed.



Base Unit Selection

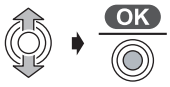
When "Auto" (Automatic Base Unit Selection) is selected, the handset automatically searches for other registered base units if you move outside of the radio range of the current base unit.
When a specified base unit is selected, the handset will access that base unit only. Calls (both incoming and outgoing) can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.

To exit the operation, press (0) at any time.

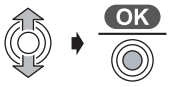
1 Press **JOYSTICK** (or move).

2 Select "Setting Handset".

3 Select "Select Base".



4 Select "Auto" or the desired base unit.



Intercom Between Handsets

You can use your handsets as a 2-way intercom.
Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio cells.

To exit the operation, press (0) at any time.

◆**For example, when Handset 1 calls Handset 2:**

	<Handset 1>	<Handset 2>
1	Press **INTERCOM** (INT), then press the desired handset number (ABC 2).	
2		Press **TALK** (talk).

- You can also answer a call by pressing (INT), (0) to (WXYZ 9), (*), (#) or (C) instead of pressing (talk) **(Any Key Talk)**.

◆**Terminating a Call**

<Handset 1 or 2>	**3** Press **TALK OFF** (0).

Multi-Unit User Operations

Transferring a Call to Another Handset

The intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit.

To exit the operation, press (0) at any time.

For example, when Handset 1 transfers a call to Handset 2:

	<Handset 1>	<Handset 2>
	(During a call)	
1	Press **INTERCOM** (INT), then press the desired handset number (ABC 2).	
2		Press **TALK**.
	(Conversation between handset 1 and 2)	
3	Press **TALK OFF** (0).	(Conversation between outside line and Handset 2)

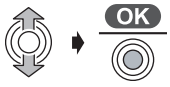
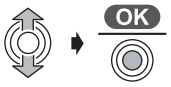
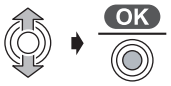
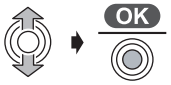
- You can also answer a call by pressing (INT), (0) to (WXYZ 9), (*), (#) or (SP-PHONE) instead of pressing **(Any Key Talk)**.
- If you press (0) after pressing the desired handset number, a call can be transferred to another handset without speaking to another handset.
  If the transferred call is not answered within 60 seconds, Handset 1 will ring again.
- When Handset 2 answers a call transferred, press (0) to complete a call transfer or press (DEF 3) to establish a **Conference Call**.

Phonebook Copy

You can copy information in the phonebook between handsets registered to the same base unit. The phonebook copy must be performed while in intercom mode (see **Intercom Between Handsets** on page 65).

To exit the operation, press at any time.

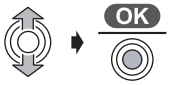
Copying an Item

	<Handset 1: Receiver>	<Handset 2: Sender>
	(During an intercom call)	(During an intercom call)
1	Press **JOYSTICK**.	
2	Select "Recv Phonebook". "Start Copying" is displayed. 	
3		Press **JOYSTICK**.
4		Select "Send Phonebook". 
5		Select the desired item to copy. 
6		Select "Copy One Item" then "Start Copying" is displayed. 

Multi-Unit User Operations

◆Copying All Items

To exit the operation, press ⏻ at any time.

Follow steps **1** to **4** on the previous page, then:		
	<Handset 1: Receiver>	**<Handset 2: Sender>**
5		Press **JOYSTICK**.
6		Select "Copy All Items". 

- When copying is completed, a beep sounds and "Copy Complete" is displayed. After a few seconds, the display will return to the intercom call. "Copy Incomplete" will be displayed if the receiver handset memory is full. If "Copy Failure" is displayed on the sender handset, the receiver did not prepare for copying.
- If you move the **JOYSTICK** up or down before pressing **JOYSTICK** at step **5**, all items will not be copied. The items, from the item indicated now to the last item, are copied.

Walkie-Talkie

The Walkie-Talkie feature allows handsets to communicate with each other outside the range of the base unit. When the handsets are in Walkie-Talkie mode, external calls cannot be received. Only **KX-TCA151EX** with Walkie-Talkie feature can communicate with one another.
Talk time in this mode is approximately 6 hours. Standby time in this mode is approximately max.15 hours. (It changes by the use conditions.) When using the handset in Walkie-Talkie mode, we recommend keeping the handset turned off, turning it on only when talking in Walkie-Talkie mode. Turning the handset off immediately after use will improve battery operating time.

Range:
The maximum range between two handsets while in Walkie-Talkie mode is up to 300 metres outdoors.

Setting the Walkie-Talkie Mode

You can set the Walkie-Talkie mode. There are two types: Common Base Station mode and Group mode. The factory preset is Group mode.

- In Common Base Station mode, communication is possible between handsets registered to a common base unit. If the handsets are registered to more than one base unit, the same base unit must be selected.

  Please note, the feature will not operate if AUTO is set in the base unit selection.

  If Common Base Station mode is selected and the handset is not registered to a base unit, an error tone sounds.
- In Group mode, communication is possible between handsets that are both set to this mode and whose Group IDs are common.
  This allows handsets to communicate in Walkie-Talkie mode regardless of which base unit they are registered to.

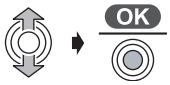
Walkie-Talkie

To exit the operation, press ⏻ at any time.

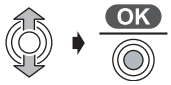
1 Press **JOYSTICK** (or move).

2 Select "Walkie-Talkie".

3 Select "Setting".



4 Select "Common" or "Group".



When "Group" is selected;

5 Enter 3-digit Group Code. (Factory Preset 000)

6 Press **JOYSTICK**.

7 Enter Handset Number. (1-9: Factory Preset is 1.)

8 Press **JOYSTICK** twice.

twice

- If you select "Group", enter Group Code (this can be 3 digits of your choice - the factory preset is 000). Make note of your code.
- The factory preset of Handset Number is 1.

IMPORTANT: Each handset should have its own unique number.

Turning the Walkie-Talkie Mode On/Off

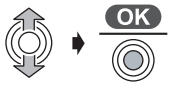
To use the Walkie-Talkie feature, all handsets in conversation must be in Walkie-Talkie mode.
To exit the operation, press (OFF) at any time.

To Turn the Walkie-Talkie Mode On

1 Press **JOYSTICK** (or move).

2 Select "Walkie-Talkie".

3 Select "On".

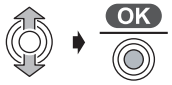


- When the Walkie-Talkie mode is ON, the handset number is displayed after "Walkie-Talkie" appears on the display.

To Turn the Walkie-Talkie Mode Off

1 Press **JOYSTICK**.

2 Select "Off".



- This feature is also turned off if you turn power off then on.

Talking in Walkie-Talkie Mode

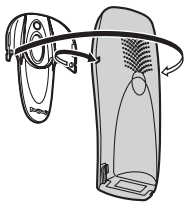
Before proceeding with this function, please ensure Walkie-Talkie mode is turned on, and the appropriate Walkie-Talkie mode has been selected.
For example, Handset 1 is calling Handset 2.

To exit the operation, press (OFF) at any time.

	<Handset 1>	**<Handset 2>**
1	Press **INTERCOM** (INT), (TALK) or (SP-PHONE), then press the desired handset number (2 ABC).	
2		Press **TALK** (TALK).

- You can also answer a call by pressing (INT), (0) to (9 WXYZ), (* TONE), (#) or (SP-PHONE) instead of pressing (TALK) **(Any Key Talk)**.

Using the Belt Clip

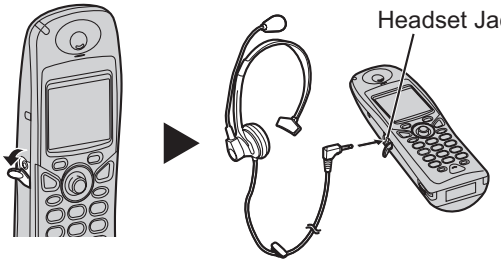


To remove the belt clip.

You can hang the handset on your belt or pocket using the belt clip.

Optional Headset

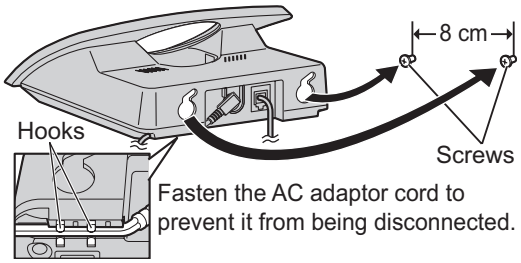
Plugging an optional headset into the handset allows hands-free phone conversations. Please use only the Panasonic KX-TCA89EX headset. While using the headset, speakerphone is not available. To switch to speakerphone, disconnect the headset.



◆**Connecting the Optional Headset to the Handset**

Open the headset jack cover, and connect the optional headset to the headset jack as shown.

Wall Mounting

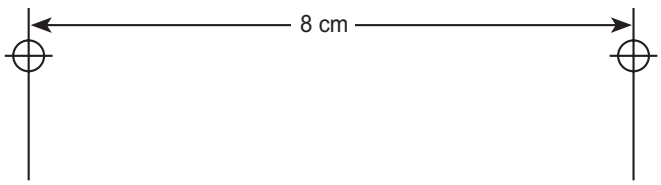


This unit can be mounted on a wall.

- Insert screws into the wall. The centre of the screw holes should be 8 cm horizontally apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.

- Make sure the scews are securely fastened to the wall.

Wall Template



Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your Network provider.
If it operates correctly, then the problem is likely to be a fault in your apparatus.
In this case, contact your supplier for advice. Your Network provider may charge you if they attend a service call that is not due to an apparatus supplied by them.
Turn the power OFF then ON (Handset)/Disconnect then connect the AC adaptor (Base Unit).

Problem	Possible cause	Solution	Page
The unit does not work.	• Batteries not installed properly. • AC adaptor of base unit not connected properly.	• Re-install batteries properly. • Disconnect and then connect AC adaptor.	p. 10
Display is blank.	• Handset not turned on.	• Turn on power.	p. 12
The display is blank even if the unit is charged.	• Battery low.	• Recharge batteries more than about 15 minutes.	p. 10
Handset will not turn on.	• Batteries not inserted. • Batteries not charged.	• Insert the 2 rechargeable batteries supplied. • Place handset on base and connect AC adaptor to base and AC outlet (full charge period 7 hrs).	p. 10
Battery charge icon not counting up.	• Dirty charge contacts. • Base not powered up.	• Clean charge/battery contacts and retry charge. • Connect AC adaptor to base unit and AC outlet.	p. 11 p. 10
Y icon flashes.	• Handset not registered to base. • Handset out of range of base. • No power into base unit.	• Register handset to base. • Move handset closer to base. • Connect AC adaptor to base unit and AC outlet.	p. 63 p. 10
Handset busy tone heard when is pressed.	• Handset out of range of base. • Another handset in use.	• Move handset closer to base. • Wait for the other user to complete call.	

Before Requesting Help

Problem	Possible cause	Solution	Page
No dial tone.	• Telephone line not connected.	• Insert telephone line cord to network. • Turn power OFF then ON.	p. 10 p. 12
Cannot dial out.	• Call Bar mode ON. • Particular dialled number is restricted. • Key lock mode ON.	• Turn feature OFF. • Remove number from call restricted list. • Turn key lock OFF.	p. 49 p. 57 p. 16
Handset will not ring.	• Ringer switched off.	• Set ringer to one of 6 volume levels.	p. 46
Last number redial does not work.	• Number exceeded 24 digits.	• Redial manually.	p. 17
No Caller ID number displayed.	• Service not supplied. • Caller has withheld info.	• Caller ID service must be arranged with Network provider.	p. 19
icon flashes.	• Battery low.	• Recharge batteries.	p. 10
Cannot register handset to base.	• Max. number of bases already registered to handset. • Max. number of handsets already registered to base unit. • Wrong PIN number entered (Default 0000). • Electrical noise in local area.	• Delete unused base registrations from handset. • Delete unused handset registrations from base. • If PIN number is lost, contact the Panasonic Service Centre. • Move base/handset away from sources of electrical noise (e.g TVs, radios, etc.).	p. 64 p. 64 p. 51 p. 5
The unit begins ringing (one ring) after other connected telephones.	• The SMS feature is turned on.	• Turn the SMS feature off, if you do not use an SMS service.	p. 40

SMS-Text Messaging

Problem	Possible cause	Solution	Page
Cannot send a message.	• You have not subscribed to Caller ID.	• Caller ID service must be arranged with Network provider.	p. 30
	• SMS Centre number is not stored in your telephone.	• Store the number.	p. 39
	• Message was interrupted during sending.	• Wait until the message has been sent before using any other telephone functions.	
Cannot send or receive a message.	• Memory is full.	• Delete messages in the Outgoing/Incoming lists.	p. 34 p. 37

Error Code	Description	Page
FD	• Could not connect to the SMS Centre. Check that you have the correct SMS Centre numbers or turn the SMS feature on.	p. 39 p. 40
FE	• There was a problem sending the message.	

505NL_e.book Page 76 Thursday, July 10, 2003 4:56 PM

Phonebook Character Table

Buttons	Alphabet (ABC)	Numeric (0–9)	Greek(АВГ)	Extended 1(AÄÅ)	Extended 2 (SŚŠ)	Russian (АБВ)
1	Space # & ' ( ) * , – . / 1	1	Space # & ' ( ) * , – . / 1			
ABC 2	A B C 2	2	Α Β Γ 2	A À Á Â Ã Ä Å Æ B C Ç 2	A Á Ä Ą B C Ć Č 2	А Б В Г 2
	a b c 2			a à á â ã ä å æ b c ç 2	a á ä Ą b c Ć Č 2	
DEF 3	D E F 3	3	Δ Ε Ζ 3	D E È É Ê Ë Ē F 3	D Ď E É Ę Ě F 3	Д Е Ж З 3
	d e f 3			d e è é ê ë ē f 3	d ď e é Ę ě f 3	
GHI 4	G H I 4	4	Η Θ Ι 4	G Ğ H I Ì Í Î Ï Ī İ Ĭ 4	G H I Í 4	И Й К Л 4
	g h i 4			g ğ h i ì í î ï ī ı ĭ 4	g h i í 4	
JKL 5	J K L 5	5	Κ Λ Μ 5	J K L 5	J K L Ł Ĺ Ľ 5	М Н О П 5
	j k l 5			j k l 5	j k l Ł Ĺ Ľ 5	
MNO 6	M N O 6	6	Ν Ξ Ο 6	M N Ñ O Ò Ó Ô Õ Ö ø 6	M N Ń Ň O Ó Ö Ő 6	Р С Т У 6
	m n o 6			m n ñ o ò ó ô õ ö ø 6	m n Ń ň o ó ö ő 6	
PQRS 7	P Q R S 7	7	Π Ρ Σ 7	P Q R S Ş ß 7	P Q R Ŕ Ř S Ś Š 7	Ф Х Ц Ч 7
	p q r s 7			p q r s Ş ß 7	p q r Ŕ ř s Ś Š 7	
TUV 8	T U V 8	8	Τ Υ Φ 8	T U Ù Ú Û Ü Ũ V 8	T Ť U Ú Ü Ű ů V 8	Ш Щ Ъ Ы 8
	t u v 8			t u ù ú û ü ũ v 8	t ť u ú ü ű ů v 8	
WXYZ 9	W X Y Z 9	9	Χ Ψ Ω ϒ 9	W Ŵ X Y ŷ Z 9	W X Y ỳ Ý Z Ź Ż Ž 9	Ь Э Ю Я 9
	w x y z 9			w Ŵ x y ŷ z 9	w x y ỳ ý z Ź Ż Ž 9	
0	Space 0	0	Space 0			

- The following small (or capital) letters of Greek, Russian (Cyrillic), Polish, Czech and Slovakian are not available. The same letter as capital (or small) will be displayed. ą ć č ę ł Í ľ ń Ø ŕ ş ś š ť Ů ŵ Ỳ Ŷ ź ż ž
- Press A→a/✱ to change letter size; Capital > Small, Small > Capital.
- To enter on LetterWise® Mode, see next page. (As for 1, see the table on this page.)

SMS Character Table

"LetterWise®" Character Table

Buttons	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Character Displayed	Space . @ / : ; ＊ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	ABC ÁÂÄ 2	DEFÈ ÉÊË 3	GHIÍÎÏ 4	JKL 5	MNO ÓÔÖ 6	PQRS 7	TUV ÚÛÜ8	WXYZ 9
		abc áâä 2	defèé êë3	ghiíî 4	jkl 5	mno óôö 6	pqrs 7	tuv úûü 8	wxyz 9

Press 0 for space or 0.
Press ＊ to change letter size; Capital > Small, Small > Capital.
Press # to show the next suggested character.

"Alphabet", "Numeric", "Greek" and "Extended" Character Table

Buttons	Alphabet (ABC)	Numeric (0–9)	Greek (ABΓ)	Extended (AÄÅ)
1	Space . @ / : ; ＊ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	1	Space . @ / : ; ＊ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	Space . @ / : ; ＊ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §
ABC 2	ABC 2 abc 2	2	ΑΒΓ 2	A À Á Â Ã Ä Å Æ B C Ç 2 a à á â ã ä å æ b c ç 2
DEF 3	DEF 3 def 3	3	ΔΕΖ 3	D E È É Ê Ë Ẽ F 3 d e è é ê ë ẽ f 3
GHI 4	GHI 4 ghi 4	4	ΗΘΙ 4	G Ğ H I Ì Í Î Ï Ĩ İ 4 g ğ h i ì í î ï ĩ ı 4
JKL 5	JKL 5 jkl 5	5	ΚΛΜ 5	J K L 5 j k l 5
MNO 6	MNO 6 mno 6	6	ΝΞΟ 6	M N Ñ O Ò Ó Ô Õ Ö ø 6 m n ñ o ò ó ô õ ö ø 6
PQRS 7	PQRS 7 pqrs 7	7	ΠΡΣ 7	P Q R S Ş ß 7 p q r s Ş ß 7
TUV 8	TUV 8 tuv 8	8	ΤΥΦ 8	T U Ù Ú Û Ü Ũ V 8 t u ù ú û ü ũ v 8
WXYZ 9	WXYZ 9 wxyz 9	9	ΧΨΩ 9	W X Y Z 9 w x y z 9
0	Space 0	0	Space 0	Space 0

- The following small (or capital) letters are not available. Then same letter as capital (or small) will be displayed.

- Ø
- ş

- Press ＊ to change letter size (Alphabet, Extended).

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Specifications

Standard:	DECT=(Digital Enhanced Cordless Telecommunications) GAP=(Generic Access Profile)
Number of channels:	120 Duplex Channels
Frequency range:	1.88 GHz to 1.9 GHz
Duplex procedure:	TDMA (Time Division Multiple Access)
Channel spacing:	1728 kHz
Bit rate:	1152 kbit/s
Modulation:	GFSK
RF Transmission power:	Approx. 250 mW
Voice coding:	ADPCM 32 kbit/s
Power source:	AC Adaptor 220 - 240 V, 50 Hz
Power consumption, base unit:	Standby: Approx. 3.5 W Maximum: Approx. 9.2 W
Operating conditions:	5 - 40 °C, 20 - 80 % relative air humidity (dry)
Dimensions and mass (weight):	
Base Unit:	About (58 mm x 128 mm x 105 mm) x 200 g
Handset:	About (143 mm x 48 mm x 32 mm) x 125 g

- Specifications are subject to change.
- The illustrations used in this manual may differ slightly from the original device.

Connections:
The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.

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Panasonic

GARANTIEBEWIJS

Zorgvuldig door koper te bewaren
tezamen met gedateerde koopbon

Dealerstempel	
Type no.	
Serie no.	
Datum aankoop	

Onze producten zijn met uiterste zorg geproduceerd en van zeer hoge kwaliteit. Wij garanderen de ongestoorde werking van het apparaat gedurende één jaar na aankoopdatum, mits het apparaat werd gebruikt zoals in de handleiding is aangegeven.
Op verbruiksmaterialen,op accu's of batterijen en op beschermingsmiddelen wordt géén garantie verleend.
De garantie vervalt indien er door anderen wijzigingen zijn aangebracht in of aan het apparaat of indien het defect is ontstaan door ondeugdelijke ver-bruiksmaterialen of accessoires of ten gevolge van invoeden van buiten af.
Garantie wordt uitsluitend verleend aan de hand van dit originele garantiebewijs en de gedateerde aankoopbon.

Afwijkende bepalingen

1. Voor V.P.S.projectiebuizen, (thermische)printerkoppen, fotokopieerapparatuur en elektronische whiteboards geldt een garantieperiode van 6 maanden op material en arbeidsloon.
2. Voor reparatie aan telefoonapparatuur, telefooncentrales, professionele magnetronovens, fotokopieerapparatuur, elektronische whiteboards, facsimileapparatuur en laserbeamprinters dient u altijd eerst uw dealer te raadplegen.
3. Voor mobiele service aan videoprojectie systemen, professionele magnetronovens, elektronische whiteboards,en fotokopieerapparatuur, worden na 3 maanden na aankoopdatum van het apparaat voorijkosten berekend.
4. Voor magnetronbuizen geldt een garantieperiode can 2 jaar op het materiaal en van 12 maanden op het arbeidsloon.
5. Het reinigen van videokoppen valt niet onder garantie. Raadpleeg altijd uw gebruiksaanwijzingen of uw dealer.
6. De volgende onderdelen vallen buiten garantie: snoeren, fluorescentiebuizen, stofkappen, glasplaten, keramiekplaten en antennes.
7. a)Voor videokoppen geldt een garantieperiode van 3 maanden of (indien eerder)500 uur.
   b)Voor videokoppen van het DVCPRO systeem geldt een garantieperiode van 12 maanden of (indien eerder)1000 uur.
8. Voor de bronlamp van de LCD videoprojectoren geldt een garantieperiode van 30 dagen resp.tot 500 uur.
9. De software updates van de professionele non-lineaire videomontage systemen vallen buiten deze garantiebepalingen.

Voor reparatie van apparatuur in Nederland,dient de apparatuur franco verzonden te worden aan:

PANASONIC-CENTRE NEDERLAND (Servicom b.v.),
Zonweg 60,2516 BM DEN HAAG
tel.:070 -3314500,fax.:070 -3477185

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Hereby, Panasonic Communications Co., Ltd., declares that this Dect Cordless Telephone is in compliance with the essential requirements and other relevant provisions of Directive
1999/5/EC.

A copy of the manufacturer's declaration of conformity to the essential requirements of the R&TTE Directive is available at the following web address:
http://doc.panasonic-tc.de

For your future reference

Serial No. Date of purchase

(found on the bottom of the base unit)

Name and address of dealer

Attach or keep original receipt to assist with any repair under warranty.

Customer Care Helpline Tel. No.: 070-3314500

CE0436

1999/5/EC

Technical specifications are subject to change.

Panasonic Service Centre:
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2516 BM Den Haag
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E-mail: info@pcn.panasonic.nl

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